REEL #433

POKROVSKIY, G.N.

ZHUKOV, M.F.; POKROVSKIY, G.N.; SMOLYAKOV, V.Ye.

Results of testing electric-arc jet drills (plasma drills). Fiz.-tekh. probl. razrab. pol. iskop. no.1:52-59 '65.
(MIRA 18:10)

1. Institut teoreticheskoy i prikladnoy mekhaniki Sibirskogo otdeleniya AN SSSR i Institut gornogo dela Sibirskogo otdeleniya AN SSSR, Novosibirsk.

POKROVSKIY, G. N.

"On the Vagotropic Action of the Milk Extract,"

Farmakol. i Toksikol., 2, No. 6, 1939. Chair.

Pharmacology, Voronezh Med. Inst., -1939-.

POKROVSKII, G.N.

Test Results of PEB-2 Electric rock drill. Pokrovskii, G.N. (Ugol(Coal), Jan. 1951, 31-34

Successful tests of this new Soviet drill in the laboratory and in mines on shale, limestone and sandstome are recorded. Ti wioghs 134 kg, has a 45 kW, (continuous rating) motor with 3-speed drive, hydraulic feed and water flush. (L)

immediate source clipping

POKROVSKIY, G. N.

Coal-Mining Machinery

Results of tests with electric ore cutter PEB-2 Ugol', No. 1, 1952.

2
9. **Monthly List of Russian Accessions**, Library of Congress, March 195[illegible]. Unclassified.

POKROVSKIY, G. N.

"Investigation of the Process of the Destruction of Rocks in the Rotation Drilling of Holes with Constant Input Strength." Cand Tech Sci, Tomsk Order of Labor Red Banner Polytechnic Inst imeni S. M. Kirov, West Siberian Affiliate, Acad Sci USSR, Min Higher Education USSR, Novosibirsk, 1954. (KL, No 1, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)
SO: Sum. No. 556, 24 Jun 55

POKROVSKIY, G.N.

Basic patterns in rotary hole boring with constant effort of feed. Trudy Gor.-geol. inst. Zap.-sib. fil. AN SSSR no.19:219-258 '57.
(MIRA 11:7)

(Boring machinery)

POKROVSKIY, G.N.; ZINOV'YEV, A.A.

Picture of forces acting on the cutter, chip formation, and nature of force changes shearing off chip elements during rock boring and cutting. Trudy Gor.-geol. inst. Zap.-Sib. fil. AN SSSR no.19:259-276 '57.

(MIRA 11:7)

(Boring machinery)

POKROVSKIY, G.N.

Effect of dimensional factors observed during rotary hole boring. Trudy Gor.-geol. inst. Zap.-Sib. fil. AN SSSR no.19:277-282 '57. (MIRA 11:7)

(Boring machinery)

POKROVSKIY, G.N.

Selecting the most satisfactory conditions of rotary hole boring using electric drills with hydraulic cutter feed. Trudy Gor.-geol. inst. Zap.-Sib. fil. AN SSSR no.19:283-289 '57. (MIRA 11:7)
(Boring)

POKROVSKIY, G.N.

Feasibility of using energy methods to determine coal and rock hardness. Trudy Gor.-geol. inst. Zap.-Sib. fil. AN SSSR no.19: 291-297 '57. (MIRA 11:7)

(Coal--Testing) (Rocks--Testing) (Hardness)

POKROVSKIY, G. I.

"Investigation of Direct Injection Into Two-Cycle Engines With Eletrical Ignition." Thesis for degree of Cand. Technical Sci. Sub 28 Jun 50, Moscow Automotive Mechanics Inst

[redacted]. Summary 71, 4 Sep 52, Dissertations Presented for Degrees in Science and Engineering in Moscow in 1950. From Vechernyaya Moskva. Jan-Dec 1950.

POKROVSKIY, G.P.

Selecting an electromagnetic proportioning device for injection systems with electronic control. Avt. prom. 30 no.10:15-17 O '64. (MIRA 17:11)

1. Moskovskiy avtomekhanicheskiy institut.

LENIN, I.M., doktor tekhn. nauk; POKROVSKIY, G.P., kand. tekhn.
nauk; FEDOROV, P.V.

Using electronic equipment for fuel proportioning. Avt. prom.
31 no.3:18-21 Mr '65. (MIRA 18:7)

1. Moskovskiy avtomekhanicheskiy institut.

L 27235-66 EWT(d)/EWT(m)/ETC(m)-6/T-2/EWP(f) WW

ACC NR: AP6009919 (A) SOURCE CODE: UR/0413/66/000/004/0116/0116

AUTHORS: Pokrovskiy, G. P.; Lenin, I. M.; Panfilov, V. T.; Fedorov, P. V. 39 B

ORG: none

TITLE: Carburetor for internal combustion engines. Class 46, No. 179121

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 4, 1966, 116

TOPIC TAGS: fuel carburetor, internal combustion engine, transducer

ABSTRACT: This Author Certificate presents a carburetor for internal combustion engines. The carburetor contains a diffuser with atomizer which supplies fuel from a hermetically sealed float chamber at a rate dependent on the pressure difference between the chamber and the diffuser (which are connected by a variable resistance channel (see Fig. 1). To increase economy, the channel is equipped with a fast-

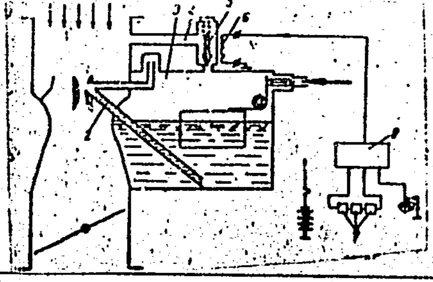

Fig. 1. 1 - diffuser; 2 - atomizer; 3 - float chamber; 4 - channel; 5 - valve; 6 - electromagnet; 7 - sensor; 8 - transducer.

Card 1/2

UDC: 621.43.033.9

L 27235-66

ACC NR: AP6009919

0

acting valve actuated by an electromagnet in response to an electric signal from a transducer which senses the engine operating regime and the environmental conditions. Orig. art. has: 1 figure.

SUB CODE: 21, 13/ SUBM DATE: 22Feb64

Card 2/2 LC

L 20780-65 EWT(d)/EWT(l)/EWG(k)/EWT(m)/FA/EWP(f)/EWG(v)/T-2 Pi-6/
Pe-5 AEDC(b)

ACCESSION NR: AP5001165 S/0113/64/000/010/0015/0017

AUTHOR: Pokrovskiy, G. P.

TITLE: On the problem of selecting electromagnetic doser for an injection system with electronic control

SOURCE: Avtomobil'naya promyshlennost', no. 10, 1964, 15-17

TOPIC TAGS: fuel injector, engine cylinder, electric pulse, crank shaft, electronic control/ENO 1 oscillograph, MPO 2 oscillograph, M 21 engine

ABSTRACT: Conditions are layed for selecting a proper electromagnetic doser for fuel injection with electronic control. The diagram of the doser is given in Fig. 1 on the Enclosure. It is shown that the minimum and maximum durations of electric pulses are the fundamental factors in determining the electromagnetic and mechanical parameters of the doser. The maximum duration τ_E (max) is controlled by the timing distribution and by the cycle and number of the engine cylinders. The analysis indicates that during the intake period of the cyclic fuel feeding (ΔG_m) the maximum allowable duration of the electric control pulse must satisfy

Card 1/4

L 20780-65
ACCESSION NR: AP5001165

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the three conditions:

$$1.\ \tau_{\partial\,\max} < \frac{120}{i n_{e\,\max}} 10^3;$$

$$2.\ \tau_{\partial\,\max} < \frac{\varphi}{6 n_{e\,\max}} 10^3;$$

$$3.\ \tau_{\partial\,\max} > \frac{\Delta G_{m\,\max}}{K_\tau \mu_\partial f_\partial \sqrt{2 g p_m \rho}} 10^{-3}.$$

where i- number of cylinders, n_e - the engine crank shaft r.p.m., K_τ - electromagnetic doser time lag coefficient, μ_∂ - mean coefficient of discharge. The first and the third of these are necessary conditions, whereas the second is desirable. Furthermore, condition 1 depends only on the construction of the engine, and in condition 3 there is a practical upper limit on the fuel pressure p_m of 15 kg/cm^2. The coefficient K_τ is determined from the motion of armature, electric pulse time, and total valve-opening time. From various tests on electromagnetic doser at the Moscow Automotive Institute a set of design requirements was arrived at among which it was found: that the actual open-state time of the doser should correspond closely to the electric control pulse time (supplied to the

Card 2/4

L 20780-65
ACCESSION NR: AP5001165

injector winding); the internal fuel-carrying channel must have a maximum possible cross section; and the doser should have very stable operation characteristics. Orig. art. has: 12 formulas, 4 figures, and 1 table.

ASSOCIATION: Moskovskiy avtomekhanicheskiy institut (Moscow Automotive Institute)

SUBMITTED: 00 ENCL: 01

SUB CODE: EE, PR NO REF SOV: 004 OTHER: 001

Card 3/4

L 20780-65
ACCESSION NR: AP5001165

ENCLOSURE: 02

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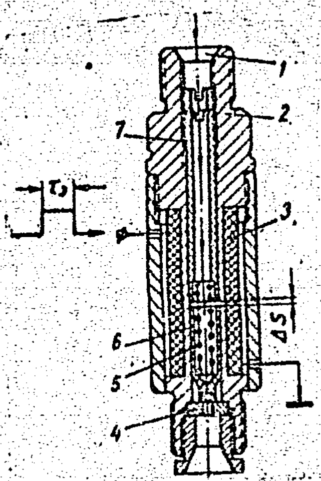


Fig. 1. Diagram of electromagnetic doser.

1- fuel-carrying channel, 2- frame, 3- electromagnet winding, 4- atomizer, 5- spring, 6- armature, 7- core.

Card 4/4

POKROVSKIY, G.P.; VIKHMAN, V.S., doktor tekhn. nauk, retsenzent;
YEGORKINA, L.I., inzh., red.

[Use of electronic control in automobile engine fuel systems] Primenenie elektroniki v sistemakh pitaniia avtomobil'nykh dvigatelei. Moskva, Izd-vo "Mashinostroenie, 1964. 98 p. (MIRA 17:5)

AUTHOR: Pokrovskiy, G. P., Candidate of Technical Sciences SOV/29-58-10-17/28

TITLE: Centrifuges Instead of Filters (Tsentrifugi vmesto fil'tra)

PERIODICAL: Tekhnika molodezhi, 1958, Nr 10, pp 24 - 24 (USSR)

ABSTRACT: In recent time centrifuges have been so widely applied that - as the author writes - it would be enough to cover several pages if all fields of application were mentioned. The idea of using centrifuges for the purification of oil was advanced. Common slot filters have the following disadvantage: they are above all not able to remove particularly detrimental admixtures from the oil. They react only upon the size of dirt particles. Apart from the mentioned fact the filters get blocked up, e. g. the denser they are the quicker they will be blocked up. Centrifuges, however, "react" upon the substance. Heavy particles as iron, sand and others are almost completely removed by the centrifugal force. Water which was accidentally mixed to the oil is also removed and thus the oil is maintained pure state and may stand longer

Card 1/2

Centrifuges Instead of Filters SOV/29-58-10-17/28

use for a longer period. Already since a long time experiments have been carried out to use centrifuges for the purification of oil. They failed, however, due to the shortcomings of the mechanical rotor and other complicated mechanisms which proved to be unreliable in operation. The solution was surprisingly simple and found in the form of a Segner's wheel. From the economic point of view the introduction of centrifuges is of great importance. The abolishment of the production of exchangeable filter elements as well as the fact that motor vehicles have to be less often repaired would save much. There is 1 figure.

Card 2/2

POKROVSKIY, Georgiy Pavlovich, kand.tekhn.nauk; VASIL'YEVA, I.A., red. izd-va; GORDEYEVA, L.P., tekhn.red.

[Centrifuges used in automobile and tractor engines] Avtomobil'nye i traktornye tsentrifugi. Moskva, Gos.nauchno-tekhn. izd-vo mashinostroit.lit-ry, 1959. 38 p. (MIRA 12:8)
(Motor vehicles--Engines--Oil filters)

GRIGOR'YEV, Mikhail Aleksandrovich, kand. tekhn. nauk; POKROVSKIY, Georgiy Pavlovich, kand. tekhn. nauk; GONIKBERG, Ye.M., inzh., retsenzent; ZHURAVLEVA, M.N., inzh., red.; TIKHANOV, A.Ya., tekhn. red.

[Centrifuges used in automobiles and tractors; theory, design and operation] Avtomobil'nye i traktornye tsentrifugi; teoriia, konstruktsiia, raschet i ekspluatatsiia. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1961. 180 p. (MIRA 14:11)
(Centrifuges) (Motor vehicles—Engines—Oil filters)

POKROVSKIY, G.R.

Concerning a problem of the redundancy theory. Elektrosviaz' 18 no.1:62-66 Ja '64. (MIRA 17:4)

ACCESSION NR: AP4014634 S/0106/64/000/001/0062/0066

AUTHOR: Pokrovskiy, G. R.

TITLE: One problem of the theory of reserve

SOURCE: Elektrosvyaz', no. 1, 1964, 62-66

TOPIC TAGS: theory of reserve, equipment reliability, hot reserve, cold reserve, substitution type reserve

ABSTRACT: This reserve problem is considered: n positions, each having one element with a reliability function p(t). The elements start operating at $t = 0$. In addition, there are m reserve elements of the same reliability available. After the entire reserves have been exhausted and the operating elements continue to fail, the remaining sound elements continue to function correctly. It is necessary to find the real reliability of $k (1 \leq k \leq n)$ fixed positions, that is the probability of correct operation of the elements in the k fixed positions at the

ACCESSION NR: AP4014634

moment t. Many practical problems can be reduced to this type of theoretical problem. Obviously, the reliability of k fixed positions generally should be lower than the reliability of k arbitrary positions, other things being equal. The article offers theoretical formulas for calculating the fixed-element reliability for these two particular cases: (a) "Hot reserve," that is when the reserve elements are permanently connected to the operating circuits and (b) "cold reserve," that is when the reserve elements normally do not operate. Curves are offered for a quick estimation of reliability for various k, n, and m. Orig. art. has: 3 figures and 22 formulas.

ASSOCIATION: none

SUBMITTED: 01Dec62 DATE ACQ: 14Feb64 ENCL: 00

SUB CODE: CO, IE NO REF SOV: 003 OTHER: 000

Card 2/2

POKROVSKIY, G.S., inzhener (g. Tartu)

Model gauge for deciphering railroad car track measuring tapes. Zhel. dor. transp. 38 no.8:81 Ag '56. (MLRA 9:10)

(Railroads--Track)

POKROVSKIY, G.S. (Tallinn).

Using cranes for installing and replacing switch boxes. Put' i put. khoz. no.2:18-19 F '58. (MIRA 11:3)
(Railroads--Switches) (Cranes, derricks, etc.)

POKROVSKIY, G.S., inzh. (Tallinn)

Maintenance of narrow-gauge tracks. Put' i put.khoz. 4 no.3: 14-15 Mr '60. (MIRA 13:5)
(Railroads, Narrow-gauge--Maintenance and repair)

DAVYDOV, Yu.P.; POKROVSKIY, G.V.; KONDRAT'YEVA, N.B.; Prinimali uchastiye: KUZ'MICHEV, M.D.; LOMONOSOVA, A.A.; KUZ'MINA, S.P.

Mechanical properties and the forgeability of alloys of the system aluminum - magnesium. Alium. splavy no.3:285-299 '64.

Forgeability of peened magnalium-type alloys. Ibid.:300-312
(MIRA 17:6)

ACCESSION NR: AT4037669 S/2981/64/000/003/0285/0299

AUTHOR: Davy*dov, Yu. P.; Pokrovskiy, G. V.; Kondrat'yeva, N. B.

TITLE: Mechanical properties and stampability of magnalium alloys

SOURCE: Alyuminiyevy*ye splavy*, no. 3, 1964. Deformiruyemy*ye splavy* (Malleable alloys), 285-299

TOPIC TAGS: aluminum alloy, magnalium, magnalium mechanical property, magnalium stampability, magnalium corrosion resistance, annealing, cold hardening, magnalium cupping, magnalium flanging, magnalium flat extrusion, magnalium round extrusion

ABSTRACT: The authors report on a study of mechanical properties and stampability of magnalium sheets from series AMg1 through AMg9 (see Table 1 of the Enclosure). The material is classified as soft (annealed), quarter-hardened (5-15% reduction), semi-hardened (20-30%) or hardened (35-50%). Mechanical properties of annealed material varied as follows for subsequent cold reductions of 10-15%, 25-30% and 40-45% respectively: tensile strength plus 20-30, 30-40 and 40-50%; yield plus 70-90, 120-130 and 200-250%; elongation minus 40-60, 60-70 and 70-75%. Temperatures up to 100C did not affect mechanical properties. Tensile strength and yield dropped sharply at 100-250C and more gradually at 250-370C, to levels of 3-6 and 2-5 kg/mm^2, respectively at 350-370C. Elongation increased sharply at

ACCESSION NR: AT4037669

100-370C, up to 100% at the latter temperature. Stampability was good, the material did not require laborious finishing procedures, ratio of yield to tensile strength averaged 0.5, lateral contraction and relative elongation approximated those of sheet aluminum and were higher than for other standard aluminum alloys, and uniform deformability levels were high. Stampability of cold material (cupping, flanging, flat and round extrusion) decreased as Mg increased from 0.5 to 3.6%, then rose again to roughly the original levels as Mg increased further to 9%. It was quite adequate even at its lowest levels (AMg3). Recommendations are given for optimal results of each of the named stamping operations. Best corrosion resistance is retained by annealing at 310-335C for 30 to 180 min. "M. D. Kuz'michev, A. A. Lomonosova and S. P. Kuz'mina also took part in the work." Orig. art. has: 12 graphs, 1 table and 4 formulas.

ASSOCIATION: none

SUBMITTED: 00 DATE ACQ: 04Jun64 ENCL: 02

SUB CODE: MM NO REV SOV: 000 OTHER: 000

Card 2/4

ACCESSION NR: AT4037669

ENCLOSURE: 01

alloy designation	Chemical composition in %									Mechanical properties		
	Mg	Mn	Be	Cr	Ti	Fe	Si	Zn	Cu	tensile strength	yield	elongation
AMg1	0,5—1,8	—	—	—	—	<0,05	<0,05	—	<0,01	9,0—15,5	3,4—6,0	29,0—37,7
AMg2	1,8—2,8	0,2—0,6	—	—	—	<0,4	<0,4	—	<0,1	16,9—23,2	7,2—11,2	24,1—27,3
AMg3	3,2—3,8	0,3—0,6	—	—	—	<0,5	0,5—0,8	<0,2	<0,05	22,6—25,2	11,6—13,3	24,8—26,0
AMg4	3,8—4,8	0,3—0,6	—	—	—	<0,4	<0,4		<0,05	23,9—28,7	12,4—16,6	25,2—28,2

ACCESSION NR: AT4037669 ENCLOSURE: 02

AMg5	4,8—5,5	0,3—0,6	—	—	—	<0,5	<0,5		<0,05	29,7—30,7	15,9—17,1	27,0—27,5
AMg6	5,8—6,8	0,5—0,8	0,0001—0,005	—	0,02—0,1	<0,4	<0,4	<0,2	<0,1	31,3—34,9	16,0—17,5	27,2—28,8
AMg7	6,8—7,8	0,3—0,5	0,0001—0,005	До 0,1	—	<0,4	<0,4	—	<0,05	32,2—36,5	15,4—17,2	26,4—29,3
AMg9	8,5—9,5	0,2—0,5	0,0001—0,005	До 0,1+ + до 0,1%Zr	—	<0,4	<0,4	—	<0,05	35,4—39,5	16,2—18,1	27,2—30,3

Table 1. Composition and properties of magnalium alloys

Card 4/4

ACCESSION NR: AT4037670 S/2981/64/000/003/0300/0312

AUTHOR: Davy*dov, Yu. P.; Pokrovskiy, G. V.; Kondrat'yeva, N. B.

TITLE: Stampability of cold worked magnalium alloys

SOURCE: Alyuminiyevy*ye splavy*, no. 3, 1964. Deformiruyemy*ye splavy* (Malleable alloys), 300-312

TOPIC TAGS: aluminum alloy, magnalium, malleable alloy, deformable alloy, cold worked alloy, alloy stampability, alloy AMg1, alloy AMg2, alloy AMg3, alloy AMg4, alloy AMg5, alloy AMg6, alloy AMg7, alloy AMg9, alloy D16, alloy hardness, alloy mechanical property, alloy annealing temperature, alloy corrosion resistance

ABSTRACT: A series of magnalium alloys of the system Al-Mg and alloy D16 were tested for stampability characteristics (elongation limit, critical beading factor, extrusion ratio, 90° bend radius) in relation to stamping temperature, duration and temperature of annealing, as well as the level of cold working (10 or 20%). Other tests concerned the effect of annealing temperature on hardness and interrelations between hardness and tensile strength of magnalium alloys. The latter dependence was plotted (see Figure 1 in the Enclosure) and

Card 1/3

ACCESSION NR: AT4037670

the graph is recommended as a guide in controlling mechanical properties. Results were verified by factory beading, bending and extruding of cold-worked sheets at 200-250C or after preliminary annealing (commercial) at such temperatures. Tensile strength of the stamped pieces was not less than 38-40 kg/mm^2, as compared to 40-45 kg/mm^2 for the original material prior to stamping. Partial cold hardening (10%) is recommended. Corrosion resistance dropped when stamping temperature exceeded 310-335C. "M. D. Kuz'michev, A. A. Lomonosova and S. P. Kuz'mina also took part in the work." Orig. art. has: 15 graphs and 2 tables.

ASSOCIATION: None

SUBMITTED: 00 DATE ACQ: 04Jun64 ENCL: 01

SUB CODE: MM NO REF SOV: 000 OTHER: 000

Card 2/3

ACCESSION NR: AT4037670

ENCLOSURE:

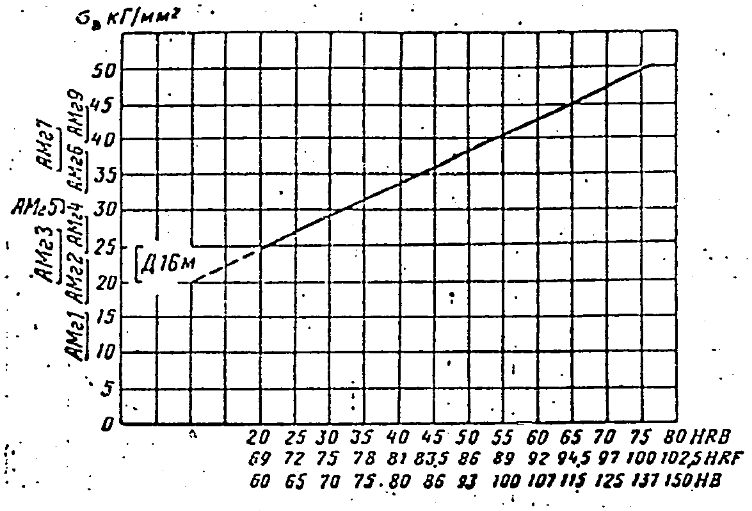


Fig. 1 - Relationship between ultimate strength and hardness of alloys of the magnalium type.

Card 3/3

POKROVSKIY, G. V.

Textile Machinery

Reconsideration of the periodical repair of weaving looms. Tekst. prom. 12
no. 3, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.
2

35911
S/123/62/000/004/012/014
A004/A101

1.1600

AUTHORS: Davydov, Yu. P., Pokrovskiy, G. V.

TITLE: The drawability of sintered aluminum powder sheets

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 4, 1962, 11, abstract 4V61 (V sb. "Teploprochn. material iz spechen. alyumin. pudry (SAP)", Moscow, Oborongiz, 1961, 66 - 76)

TEXT: The authors investigated the drawability of sheets from sintered aluminum powder. A preliminary analysis of the mechanical properties showed a low drawability of sintered aluminum powder in view of the insignificant difference between σ_b and σ_s, which results in a narrow range of plastic deformation. Tests were carried out in deep drawing, flanging, stamping and bending. At room temperature it is only possible to obtain from sintered aluminum powder bent parts with smooth transitions. At temperatures in the range of 420 - 470°C the drawability of sintered aluminum powder considerably improves and is not inferior to the drawability of sheets from aluminum alloys in the cold state; it is possible to produce intricate components.. To remove hardening during deformaion, the parts are annealed at 450°C for 5 - 10 hours. It is recommended to effect

Card 1/2

POKROVSKIY, G.V.

Belt loader with a mechanically sliding mobile part of the frame.
Kauch. i rez. 23 no.12:46-47 D '64. (MIRA 18:2)

1. Yaroslavskiy sazhevyy zavod.

PHASE I BOOK EXPLOITATION SOV/6437

Davydov, Yu. P., Candidate of Technical Sciences, and G. V. Pokrovskiy, Engineer

Tekhnologiya listovoy shtampovki titanovykh splavov (Technology of Titanium Alloy Sheet Stamping) Moscow, Mashgiz, 1963. 69 p. Errata slip inserted. 3500 copies printed.

Ed. of Publishing House: M. F. Ragazina; Tech. Ed.: N. F. Demkina and F. P. Mel'nichenko; Managing Ed. for Literature on the Hot Working of Metals: L. A. Osipov, Engineer.

PURPOSE: This booklet is intended for engineering personnel of plants concerned with the development of engineering processes and for students at schools of higher technical education and tekhnikums who are studying problems connected with the forming of titanium alloys.

Card 1/4

POKROVSKIY, G.V.

Machine for packing carbon black in paper bags. Kauch.i rez. 21 no.5:53 My '62. (MIRA 15:5)

1. Yaroslavskiy sazhevyy zavod.
(Carbon black—Packaging)

POKROVSKIY, G.V.

Packing of carbon black in screws with rolls. Kauch. i rez. 20 no. 4:54 Ap '61. (MIRA 14:5)

1. Yaroslavskiy sazhevyy zavod.
(Iaroslavl—Carbon black)

POKROVSKIY, G.V.

Device for fastening packages in a carbon black packaging machine.
Kauch. i rez. 20 no.10:50-51 O '61. (MIRA 14:12)

1. Yaroslavskiy sazhevyy zavod.
(Carbon black) (Packaging machinery)

Pokrovskiy, G. V.

PHASE I BOOK EXPLOITATION SOV/6068

Davydov, Yuriy Petrovich, and Grigoriy Vasil'yevich Pokrovskiy

Listovaya shtampovka legirovannykh staley i splavov (Sheet Stamping of Alloyed Steel and Alloys) Moscow, Oborongiz, 1962. 198 p. 6550 copies printed.

Reviewer: A. M. Abramov, Candidate of Technical Sciences; Ed.: G. M. Makovskiy, Engineer; Ed. of Publishing House: L. I. Sheynfayn; Tech. Ed.: A. Ya. Novik; Managing Ed.: A. S. Zaymovskaya, Engineer.

PURPOSE: This book is intended for process engineers of stamping shops and for design engineers. It may also be of use to scientific research workers engaged in research work connected with the pressure working of metals.

COVERAGE: The authors' investigations concerning the stamping of alloy steel and alloy sheets, which were carried out over a number of years, are summarized. The properties of aluminum,

Card 1/5

Sheet Stamping of Alloyed (Cont.) SOV/6068

magnesium, and titanium alloys, as well as those of stainless-steel, heat-resistant-alloy, and refractory-alloy sheets are discussed in relation to their formability . Methods of evaluating the formability of sheet materials are described and technological features of the stamping of alloy steels and alloys are discussed. Information is given on lubricants, heat treatment, die materials, and other subjects connected with the stamping process. The 08KP, 12G2A, 25KhGSA, 30KhGSA, 20KhGSNA, and 30KhGSNA are among the carbon and low-alloy steels discussed in Ch. II. Ch. III deals with special types of steels and alloys. Among them are the Kh15N9Yu (or SN-2) and Kh17N5M3 (or SN-3) precipitation hardenable steels, the EI654, EI696, EI696A, EI835, EI602, EI703 and numerous steels, counterparts of the AISI 300 and 400 series, and chromium. The D19, D20, AMg6, and SAP alloys are mentioned in Ch. IV. Ch. VI discusses the stamping of Ti-alloys of the OT and VT series. The authors thank technicians O. M. Munykin, M. D. Kuz'michev, and I. I. Pantyushin for their participation in the experiments. There are no references.

TABLE OF CONTENTS:

Foreword 3

Ch. I. Investigating the Formability of Sheet Materials 5
- Methods of evaluating formability 5
- Dependence of formability upon mechanical properties 7
- Methods of testing formability 18
- Dependence of formability upon chemical composition and structure 38

Ch. II. Carbon and Alloy Steels 48

Ch. III. Stainless, Oxidation-Resistant, Acid-Resistant, and Heat-Resistant Steels and Alloys 58

Sheet Stamping of Alloyed (Cont.) SOV/6068

Ch. IV. Aluminum Alloys 72

Ch. V. Magnesium Alloys 102

Ch. VI. Titanium Alloys 110

Ch. VII. Refractory Metals and Alloys 126

Ch. VIII. Copper, Nickel, Zinc, Beryllium, and Zirconium Alloys and Some Electrical Materials 134

Ch. IX. Friction and Lubrication in Sheet Stamping 145

Ch. X. Making Die Materials 173
- Steels 177
- Special cast iron 183

Card 4/5

Sheet Stamping of Alloyed (Cont.) SOV/6068

Nonferrous antifriction alloys 185
Sintered hard alloys 187
Low-melting alloys 189
Nonmetallic materials 192

Ch. XI. Methods of Heating Tools and Blanks 195

AVAILABLE: Library of Congress

SUBJECT: Metals and Metallurgy

DV/wrc/bc
9-26-62

Card 5/5

DAVYDOV, Yu.P., kand. tekhn. nauk; POKROVSKIY, G.V., inzh.;
RAGAZINA, M.F., red.izd-va; DEMKINA, N.F., tekhn. red.

[Technology for the die stamping of titanium alloy sheet]
Tekhnologiia listovoi shtampovki titanovykh splavov. Moskva, Mashgiz, 1963. 69 p. (MIRA 16:4)
(Titanium alloys) (Sheet-metal work)

POKROVSKIY, I.

"Ivan Stepanovich Aleksandrin, Honored Doctor of the RSFSR Obituary", Vest. Oto-rino-laringol., No. 2, 1948. Honored Dr. RSFSR, -c1948-.

POKROVSKIY, I.A., dots.

Clinical and roentgenological parallels in labor in cases of a narrow pelvis [with summary in English]. Akush. i gin. 34 no.3: 11-15 My-Je '58. (MIRA 11:6)

1. Iz akushersko-ginekologicheskoy kliniki (zav. - prof. G.N. Smirnov) Ryazanskogo meditsinskogo instituta akad. I.P.Pavlova.
(LABOR
in narrow pelvis, x-ray & clin. aspects (Rus))

ROKHOVSKIY, I.A., Doc Med Sci --(diss) "Narrow pelvis from the clinical point of view." Ryazan', 1959. 34 pp (Ryazan' Med Inst im Academician I.P. Pavlov), 200 copies (KL,31-59, 116)

POKROVSKIY, I. F.

POKROVSKIY, Ivan Fedorovich; **PYATNITSKIY**, P.P., kand.yuridicheskikh nauk, otvetstvennyy red.; **KAZAKOVA**, L.A., red.; **ASTAKHOVA**, I.V., tekhn.red.

[The machine-tractor station is the mainstay of State control of collective farms] MTS - opornyi punkt gosudarstvennogo rukovodstva kolkhozami. Otv.red. P.P.Piatnitskii. Moskva, Gos.izd-vo iurid. lit-ry, 1957. 97 p. (MIRA 11:2)

(Machine-tractor stations)

POKROVSKIY, Ivan Fedorovich; POGORELAYA, Ye.P., red.

[Publicizing literature on applied economics] Propaganda literatury po voprosam konkretnoi ekonomiki. Leningrad, 1958. 153 p. (MIRA 12:7)
(Libraries and readers)
(Economics--Study and teaching)

PAVLYUCHENKO, M.M.; POKROVSKIY, I.I.; TIKHONOV, A.S.

Self-diffusion of copper in Cu_2S. Dokl. AN BSSR 9 no. 4:
235-237 Ap '65 (MIRA 19:1)

1. Belorusskiy gosudarstvennyy universitet imeni Lenina.
Submitted January 30, 1965.

PAVLYUCHENKO, M.M.; POKROVSKIY, I.I.

Kinetics of vaporization of sulfur from sulfide scales. Dokl. AN BSSR 9 no.7:446-449 Jl '65. (MIRA 18:9)

1. Belorusskiy gosudarstvennyy universitet imeni V.I.Lenina.

PAVLYUCHENKO, M.M.; POKROVSKIY, I.I.

Answer to the remarks made by A.Briu[illegible]an, S.Mrovets, and T.Verber. Fiz. met. i metalloved. 20 no.4:639-640 O '65. (MIRA 18:11)

1. Belorusskiy universitet imeni V.I.Lenina.

10

POKROVSKIY, I.I.; PAVLYUCHENKO, M.M.; SHIMANOVICH, I.Ye.

Diffusion of copper in the sulfide film formed on it. Dokl. AN BSSR 5 no.11:499-502 N '61. (MIRA 15:1)

1. Belorusskiy gosudarstvennyy universitet imeni Lenina.
(Copper sulfides) (Diffusion)

PAVLYUCHENKO, M.M., akademik; POKROVSKIY, I.I.

Evaporation of sulfur from sulfide scales separated from copper. Dokl. AN SSSR 153 no.3:646-649 N '63. (MIRA 17:1)

1. Belorusskiy gosudarstvennyy universitet im. V.I. Lenina.
2. AN BSSR (for Pavlyuchenko).

POKROVSKIY, I.I.; PAVLYUCHENKO, M.M.

Kinetics of the sulfuration of copper by liquid sulfur. Dokl. AN BSSR 4 no. 11:462-465 N '60. (MIRA 13:12)

1. Belorusskiy gosudarstvennyy universitet imeni V.I. Lenina.
(Sulfuration) (Copper)

POKROVSKIY, I.I.; PAVLYUCHENKO, M.M., akademik

Mechanism of the oxidation of copper by liquid sulfur, as studied by means of the S^{35} isotope. Dokl.AN SSSR 134 no.2:391-393 S '60. (MIRA 13:9)

1. Belorusskiy gosudarstvennyy universitet im. V.I.Lenina.
(Sulfur--Isotopes) (Oxidation) (Copper)

S/081/62/000/017/020/102
B166/B180

AUTHORS: Pavlyuchenko, M. M., Pokrovskiy, I. I.

TITLE: The mechanism of the high temperature oxidation of metals by oxygen, sulfur and halides

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 17, 1962, 58, abstract 17B390 (In collection: Geterogen. khim. reaktsii. Minsk, 1961, 240 - 248)

TEXT: An examination of the mechanism of scale-formation processes shows that considerable difficulties arise in trying to explain them on the basis of unidilateral diffusion of the metal towards the scale - metalloid interface alone. These are eliminated if it is assumed that transport of the metalloid towards the interface also occurs during the reaction. [Abstracter's note: Complete translation.]

Card 1/1

L 8141-66 EWT(m)/ETC/EWG(m)/EWP(t)/EWP(b) IJP(c) RDW/JD/JXT(BF)

ACC NR: AP5025728 SOURCE CODE: UR/0286/65/000/018/0080/0081. 2

AUTHORS: Kal'manson, V. A.; Zlotnikov, G. G.; Vishnevskaya, N. P.; Petrov, G. A.; Zaytsev, Ye. N.; Golikov, I. G.; Pokrovskiy, I. V.

20 β

ORG: none

TITLE: Reading-copying apparatus. Class 42, No. 174810 [announced by Laboratory for Electromodulation of the All-Union Institute for Scientific and Technical Information, AN SSSR (Laboratoriya elektromodelirovaniya vsesoyuznogo instituta nauchnoy i tekhnicheskoy informatsii AN SSSR)]

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 18, 1965, 80-81

TOPIC TAGS: microreader, microcopying device, selenium copying device

21

ABSTRACT: This Author Certificate presents a reading-copying apparatus. The device contains an optical system which permits reading and copying of micro-images. To make the device more convenient to use and to improve its performance during selective copying, the device is equipped with a charge-developing electrographic installation (see Fig. 1). The selenium plate of the latter coincides with a transparent screen situated within the depth limits of the sharpness of the objective. A modification of the above device for the complete copying of exposure onto the selenium plate contains a concave mirror.

UDC: 778.148.2.778.275

Card 1/2

2

L 8141-66

ACC NR: AP5025728

0

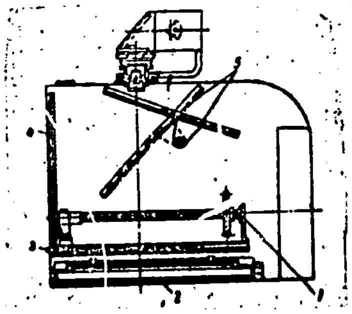
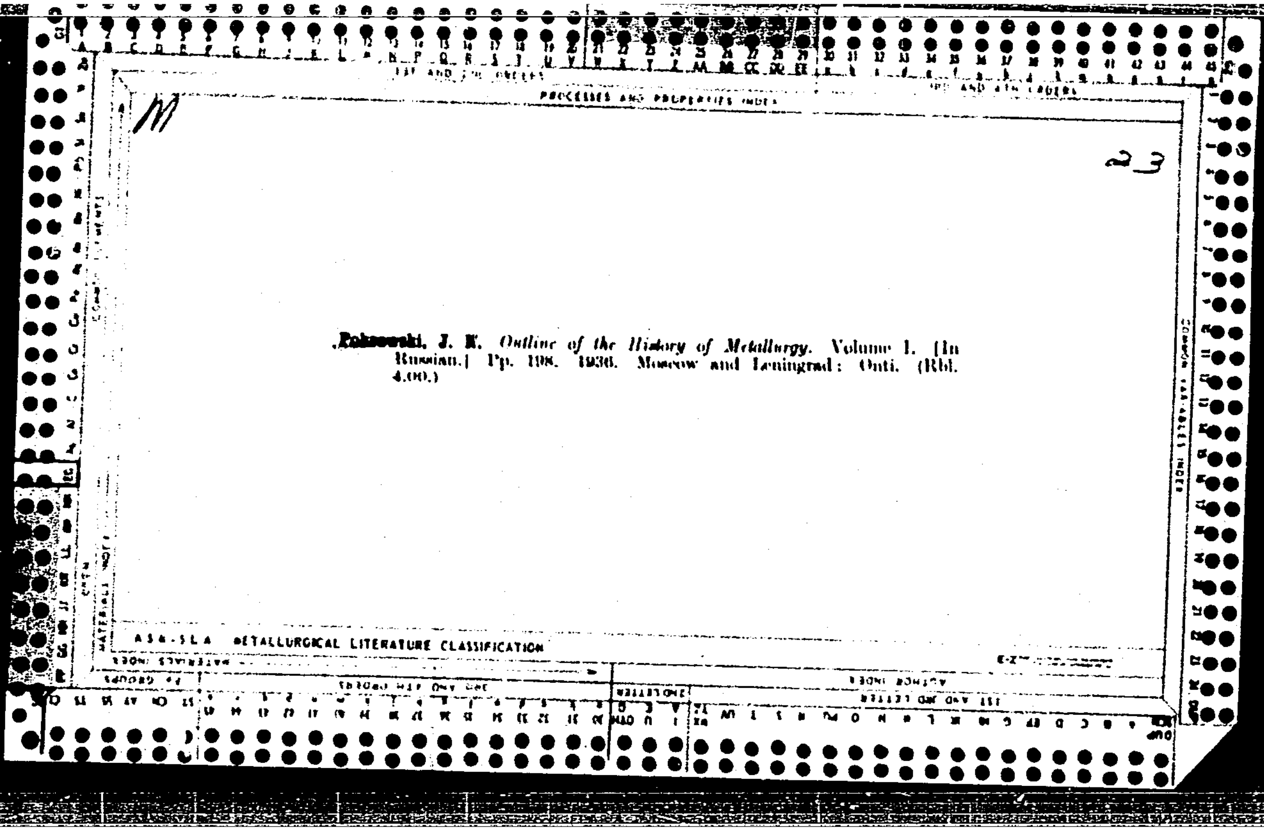


Fig. 1. 1- charging installation; 2- developing installation; 3- selenium plate; 4- transparent screen; 5- mirror

Orig. art. has: 1 figure.

SUB CODE: EO, NP/ SUBM DATE: 22Sep64

Card 2/2 nw



PROCESSES AND PROPERTIES INDEX
ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

M

23

Pokrovski, J. K. *Outline of the History of Metallurgy.* Volume I. [In Russian.] Pp. 198. 1936. Moscow and Leningrad: Onti. (Rbl. 4.00.)

SOURCE CODE: UR/0416/66/000/006/0039/0042

ACC NR: AP6028182 (A)

AUTHOR: Lynnik, P. (Lieutenant colonel); Pokrovskiy, K. (Major)

ORG: None

TITLE: Exercises for training junior specialists

SOURCE: Tyl i snabzheniye sovetskikh vooruzhennykh sil, no. 6, 1966, 39-42

TOPIC TAGS: specialized training, training procedure, food technology

ABSTRACT: General considerations are presented on conducting garrison and field exercises for developing the proficiency of various specialists assigned to the service establishments in rear areas. Specialized training groups are organized separately for warehouse managers, storekeepers, clerks, mess officers, cooks, tailors, shoemakers, medical orderlies, supply officers, etc. An example of organizing exercises for kitchen and mess personnel is presented and illustrated in a table covering a 5-day training procedure (hours, subjects, methods, place and instructors). The program includes studies of food products, kitchen equipment, cooking practice and preparation of food under field conditions. The preparation of food in contaminated areas is also included. Another example deals with the organization of food service activities under combat conditions. A seven-hour exercise includes the studies of combat and rear areas, the selection of a place for the field kitchen, the deployment of kitchen service and the prepara-

Card 1/2

POKROVSKIY, K.

Engineer

"Soviet Television, Vechernyaya Moskva, 1949

Current Digest of the Soviet Press, Vol. 1
No. 51, 1950, page 17. ([redacted])

ATABEKOV, Vil'yam Borisovich; POKROVSKIY, K.D., red.; KUZNETSOVA, L.N., red.izd-va; SALAZKOV, N.P., tekhn. red.

[Power transformers] Silovye transformatory. Moskva, Izd-vo M-va kommun.khoz.RSFSR, 1963. 91 p. (MIRA 16:10)
(Electric transformers)

ATABEKOV, Vil'yam Borisovich; POKROVSKIY, K.D., red.; BUTT, V.P., red. izd-va; LELYUKHIN, A.A., tekhn. red.

[VMG-133 and MG-35 high voltage oil cutouts; an electrician's manual] Vysokovol'tnye maslianye vykliuchateli VMG-133 i MG-35; pamiatka elektromontera. Moskva, Izd-vo M-va kommun. khoz. RSFSR, 1961. 101 p. (MIRA 15:3)

(Electric cutouts)

POKROVSKIY, K.V.; RAMAZANOVA, E.E.

Calculating the condensation isotherm of gas condensate systems. Izv.vys.ucheb.zav.;neft' i gaz 7 no. 1:80-84 '64. (MIRA 17:7)

1. Azerbaydzhanskiy institut nefti i khimii imeni M.Azizbekova.

POKROVSKIY, K.V.; DANILOV, A.S.

Changes in the gas factor of gas-condensate wells. Izv. vys. ucheb. zav.; neft' i gaz 4 no.3:47-52 '61. (MIRA 16:10)

1. Azerbaydzhanskiy institut nefti i khimii im. M.Azizbekova.

VELIKOVSKIY, A.S.; POKROVSKIY, K.V.; STEPANOVA, G.S.; RAZAMAT, M.S.

Study of thermodynamic conditions governing the separation of gas in a gas condensate field. Trudy VNIIGAZ no.17:108-114 '62. (MIRA 15:12)

(Gas, Natural--Separation)

POKROVSKIY, K.V.; RAZAMAT, M.S.

Method for determining the reservoir pressure in wells that produce gas, condensate, and oil. Izv. vys. uch. zav.; neft' i gaz 5 no.9:45-50 '62. (MIRA 17:5)

1. Azerbaydzhanskiy institut nefti i khimii im. M. Azizbekova.

POKROVSKIY, K.V.; RAMAZANOVA, E.M.

Determination of the pressure of maximum condensation of hydrocarbon systems in trap rocks. Izv. vysh. ucheb. zav.; neft' i gaz 6 no.3:41-45 '63. (MIRA 16:7)

1. Azerbaydzhanskiy institut nefti i khimii imeni M.Azizbekova. (Condensate oil wells)

POKROVSKIY, E.I.

POKROVSKIY,K.V.; AGAYEVA,F.M.

Increasing the capacity of compressors by means of extra equipment.
Izv. AH Azerb. SSR no.9:3-21 S'54. (MIRA 8:11)
(Air compressors)

POKROVSKIY, K.V.; STEPANOVA, G.S.; FARZANE, N.G.

Method of plotting phase diagrams for gas condensate systems.
Trudy Azerb. ind. inst. no.19:148-158 '57. (MIRA 11:9)
(Apsheron Peninsula--Condensate oil wells)
(Phase rule and equilibrium)

POKROVSKIY, K.V.

Characteristic equation and principal thermodynamic values of hydrocarbon gases in nearly ideal states. Izv.vys.ucheb.zav.: neft' i gaz. no.7:67-75 '58. (MIRA 11:11)

1. Azerbaydzhanskiy industrial'nyy institut im. M. Azizbekova.
(Gas, Natural) (Thermodynamics)

POKROVSKIY, K.V.; FARZANE, N.G.; DANILOV, A.S.; RAZAMAT, M.S.

Determining condensate losses in layers during the exploitation of condensate gas wells without maintaining reservoir pressure. Izv. vys. ucheb. zav.; neft i gaz no.8:47-52 '58. (MIRA 11:10)

1. Azerbaydzhanskiy industrial'nyy institut im. M. Azizbekova. (Apsheron Peninsula--Condensate oil wells)

VELIKOVSKIY, A.S.; POKROVSKIY, K.; STEPANOVA, G.S.; RAZAMAT, M.S.

Effect of pressure and temperature on the recovery of the condensate from gas of the Karadag oil field. Gaz. prom. no.10:13-17 O '58. (MIRA 11:11)
(Karadag--Condensate oil wells)

GUSEYNZADE, E.G.; RAMAZANOVA, E.M.; POKROVSKIY, K.V.

Compressibility diagram for individual hydrocarbons of the alkane series at the reduced pressure $\pi \geqslant 5.0$ and temperature $\tau \leqslant 0.9$. Izv. vys. ucheb. zav.; neft' i gaz 3 no.8:59-64 '60. (MIRA 14:4)

1. Azerbaydzhanskiy institut nefti khimii imeni M.Azizbekova. (Paraffins)

POKROVSKIY, K.V.; KOLMANYAN, S.R.; DANILOV, A.S.

Thermodynamic bases for determining potential gas and condensate reserves of gas-condensate fields. Izv. vys. ucheb. zav.; neft' i gaz 3 no.7:53-58 '60. (MIRA 15:5)

1. Azerbaydzhanskiy institut nefti i khimii imeni M. Azizbekova.
(Condensate oil wells)

POKROVSKIY K.V.; KOLMANYAN, S.R.

Calculating gas and condensate reserves in condensate gas fileds. Izv. vys. ucheb. zav.; neft' i gas 3 no.9:51-57 '60. (MIRA 14:4)

1. Azerbaydzhanskiy institut nefti i khimii imeni M.Azizbekova. (Condensate oil wells)

POKROVSKIY, K.V.; KOLMANYAN, S.R.; DANILOV, A.S.

Method for calculating gas and condensate potentials of condensate gas fields. Izv. vys. ucheb. zav.; neft' i gaz 3 no.10:69-73 '60.
(MIRA 14:4)

1. Azerbaydzhanskiy institut nefti i khimii imeni M. Azizbekova.
(Condensate oil wells)

POKROVSKIY, K.V.; KOLMANYAN, S.R.; DANILOV, A.S.

Example of calculating reserves of gas-condensate fields by various methods and their comparative evaluation. Izv. vys. ucheb. zav.; neft' i gaz 3 no.12:65-72 '60. (MIRA 14:10)

1. Azerbaydzhanskiy institut nefti i khimii imeni M. Azizbekova.
(Condensate oil wells)

POKROVSKIY, K.V.; RAZAMAT, M.S.

Thermodynamic study of a mixed gas-condensate with oil system.
Izv. vys. ucheb. zav.; neft' i gaz 4 no.9:41-48 '61. (MIRA 14;12)

1. Azerbaydzhanskiy institut nefti i khimii imeni M. Asisbekova.
(Condensate oil wells)

VIKULIN, N.; YANOVSKIY, I.; KOVALEV, V., inzh.; KARKACHEV, P., prepodavatel'; POKROVSKIY, L., starshiy inzh.; BANDOVKIN, A.

Prepare workers for the automation of industry. Radio no.1: 8 Ja '61. (MIRA 14:9)

1. Nachal'nik Shakhtinskogo radiokluba Dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu (for Vikulin). 2. Predsedatel' soveta Shakhtinskogo radiokluba Dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu (for Yanovskiy. 3. Chlen Shakhtinskogo radiokluba (for Kovalev). 4. Proyektnyy otdel Upravleniya "Shakhtospetsmontazh" kombinata "Rostovugol'" (for Pokrovskiy). 5. Slesar' po remontu vysokochastotnoy apparatury shakhty "Yuzhnaya-I" (for Bandovkin).

(Automatic control)

L 16849-63 EWT(1)/FCC(w)/BDS/EEC-2/ES(v) AFFTC/ESD-3 Pe-4 PT-2/GW

ACCESSION NR: AR3006334 S/0058/63/000/007/H043/H044

72

SOURCE: RZh. Fizika, Abs. 7Zh299

AUTHOR: Fialko, Ye. I.; Pereguodv, F. I.; Nemirova, E. K.; Serafinovich, L. P.; Pokrovskiy, L. A.; Zolotarev, I. D.; Zubarev, G. S.

TITLE: Some results of radar observations of meteors in Tomsk during 1957-1959

CITED SOURCE: Izv. Tomskogo politekhn. in-ta, v. 100, 16-19

TOPIC TAGS: meteor, radio observation, sporadic meteor, regular meteor, Quadrantide meteor

TRANSLATION: A summary is presented of radar observations made in the city of Tomsk in 1957--1958 using the TPI-2 meteor radar station. The parameters of the apparatus are: frequency 30 Mcs, power ~100 kW pulse, pulse duration 5 microseconds, transmission frequency

Card 1/2

L 16849-63

ACCESSION NR: AR3006334

0

600 pulses/sec, transmission and reception with half-wavelength dipoles located at a height λ/3 above the earth, receiver sensitivity ~5 x 10^{-14}W. The changes in the activity of the sporadic and regular-flow meteors were investigated. Altogether 130,000 reflections were registered in 1957 and 191,500 in 1958. Information is presented on the average course of the external noise, the distribution of the heights of the Quadrantide meteors (from the data of 4--5 January 1959) and of sporadic meteors. V. N.

DATE ACQ: 15Aug63 SUB CODE: PH, AS ENCL: 00

Card 2/2

POKROVSKIY, L. A.

43285

S/831/62/000/008/006/016
E192/E382

1

6.4731

AUTHORS: Fialko, Ye.I., Peregudov, F.I., Nemirova, E.K., Zubarev, G.S., Zolotarev, I.D. and Pokrovskiy, L.A.

TITLE: Radar equipment for meteor observations at Tomsk .

SOURCE: Ionosfernyye issledovaniya (meteory). Sbornik statey, no. 8. V razdel programmy MGG (ionosfera). Mezhduved. geofiz. kom. AN SSSR. Moscow, Izd-vo AN SSSR, 1962, 45 - 50

TEXT: Radar equipment, type ТПИ-2 (TPI-2), has been used for meteor observations at Tomsk since May, 1957. Apart from that, additional equipment, type M-3, was designed and built for operating at the wavelength of 4 m. The TPI-2 equipment operates at the wavelength of 10 m and permits determination of the range of a meteor track, its velocity and the radial component of the drift velocity of the track. The pulse-power of the radar transmitter is 100 kW, pulse duration 5 μs, pulsing frequency 600 c.p.s. (each alternate pulse being doubled) and its maximum range is 400 km. The sensitivity of the receiver is 10^{-13} W, the antenna being in the form of a half-wave dipole situated at a height of $\lambda/3$ above the

X

Card 1/4

Radar equipment ....

S/831/62/000/008/006/010
E192/E382

Earth. The transmitter equipment consists of: 1 - an excitation unit; 2 - high-frequency unit; 3 - output stage; 4 - modulator; 5 - rectifier circuit; 6 - sub-modulator unit; 7 - rectifier unit for 800 V; 8 - rectifier unit for 1 250 V; 9 - rectifier unit for 4 kV; 10 - high-voltage rectifier for 10 kW; 11 - control unit; 12 - rectifier circuits for 250 V and 2 kV; 13 - control panel and 14 - magnetic stabilizer. The transmitter employs a number of power-amplification stages, the output stage being capable of giving 100 kW pulse output. All the transmitter stages, except the quartz stabilized driver oscillator, operate under pulse conditions. The excitation unit consists of the driver, a buffer amplifier, power amplifier, tripler and a "coherent" voltage stage. The driver generates a frequency of 5 Mc/s and its anode circuit is tuned to 10 Mc/s. The buffer amplifier operates without grid currents and the following amplifier stage operates in class C; the tripler produces a frequency of 30 Mc/s and this is fed to the high-frequency unit consisting of two power stages. The modulating equipment consists of a sub-modulator and a modulator, the sub-modulator being driven by anode pulses with a

Card 2/4

S/831/62/000/008/006/016
E192/E382

Radar equipment ....

duration of 5 µs, the grid pulses having a duration of 7 µs or gating pulses of 50 to 70 µs duration. The modulator produces powerful output pulses in the output stage and is based on discharging a storage capacitance. The output pulses from the modulator transformer secondary is applied to the anodes of the output tubes. The receiver equipment comprises a device for coherent pulse reception, range-measuring devices for amplitude and brightness, meteor-velocity indicator, drift indicator, noise suppressor, a synchronizing device, a photo-synchronization unit, coherent-pulse drift indicator and power supplies. The meteors are recorded on a photographic film moving with a velocity of 3 cm/min; under special conditions this can be increased to 70 cm/min. The range-indicator is used for visual observation of the reflected signals. The velocity of meteors is measured by the diffraction-pulse method (J.G.Davies, C.D.Ellyett, Philos. Mag., ser.7, v.40, no.305, 1949), the time-base being triggered by the signal reflected from the meteor. The equipment M-3 operates at a wavelength of 4 m and is used for recording the number, range and duration of meteor reflections. The equipment

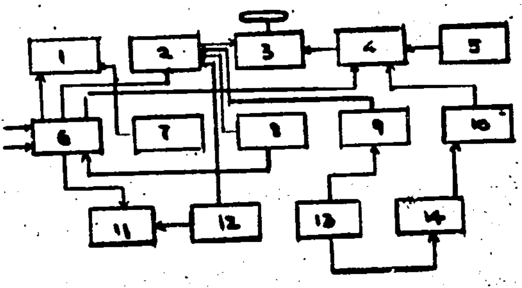
Card 3/4

S/831/62/000/008/006/016
E192/E382

Radar equipment ....

has a pulse power of 100 kW, repetition frequency of 600 cps and pulse-duration of 3 μs; it is furnished with a half-wave dipole antenna situated at a height of λ/3 above the Earth and a Yagi-type directional antenna.

Fig.1.



Card 4/4

UKRAINSKIY, M.A., st. nauchn. sotr.; MASKEVICH, M.M.; LODEYSHCHIKOV, V.V., kand. tekhn. nauk; SKOBEYEV, I.K., prof., doktor tekhn. nauk; STAKHEYEV, I.S., kand. tekhn. nauk; KULIKOV, A.Y., kand. tekhn. nauk; KULIKOVA, S.Ya., kand. geol.-miner. nauk; POKROVSKIY, L.A.; ALEKSANDROVA, N.N.; YELANSKIY, A.N., st. nauchn. sotr.; TROKSKAYA, Z.I.; BANDENOK, L.I., nauchn. sotr.; VERIGO, K.N.; TEMKO, V.P., red.

[Gold mining industry in capitalist countries; technical and economic survey] Zolotodobyvaiushchaia promyshlennost' kapitalisticheskikh stran; tekhniko-ekonomicheskii obzor. Moskva, 1963. 337 p. (MIRA 17:6)

1. TSentral'nyy nauchno-issledovatel'skiy institut informatsii i tekhniko-ekonomicheskikh issledovaniy tsvetnoy metallugii.
2. TSentral'nyy nauchno-issledovatel'skiy institut informatsii i tekhniko-ekonomicheskikh issledovaniy tsvetnoy metallurgii (for Ukrainskiy, Yelanskiy, Verigo).

43284

S/831/62/000/008/005/016
E192/E382

3.2440

AUTHORS: Fialko, Ye.I., Peregudov, F.I., Nemirova, E.K., Pokrovskiy, L.A.

TITLE: Radar observations on meteors at Tomsk

SOURCE: Ionosfernyye issledovaniya (meteory). Sbornik statey, no.8. V razdel programmy MGG (ionosfera). Mezhduved. geofiz. kom. AN SSSR. Moscow, Izd-vo AN SSSR, 1962, 41-44

TEXT: Systematic radar observations of meteors at Tomskiy politekhnicheskiy institut im. S.M.Kirova (Tomsk Polytechnical Institute imeni S.M.Kirov) have been conducted as part of the IGY program. Special equipment, type ТПИ-2 (TPI-2), with wavelength of 10 m, pulse power 100 kW, pulse-duration 5 µs and pulsing frequency 600 cps, was used. Between July and December 1957, the overall observation time was 602 hours, during which 135000 reflections were observed. Between January and June 1958, the total observation time was 541 hours and the number of recorded reflections was 46000. The average number of recorded meteors per hour was $\bar{N} \cong 160$ but the average for various days deviated

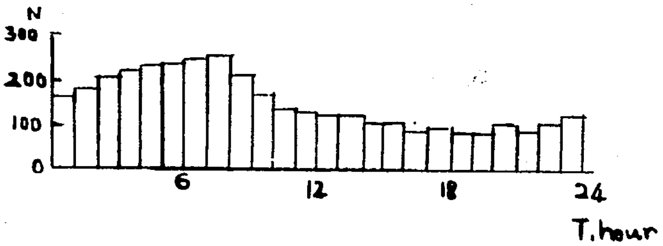
Card 1/3

S/831/62/000/008/005/016
E192/E382

Radar observations on ...

considerably from $\bar{N}$. An idea of the daily variation of the meteor activity can be obtained from Fig.1, which shows N as a function of the time of the day. The distribution of time intervals between neighbouring meteor reflections can be approximated by an exponential law which confirms the random character of the appearance of meteors in the atmosphere. The distribution of the echo durations obeys an inverse proportional law, as can be seen from Fig.4. The drift velocity of the meteors varies from 0 to 50 m/s, the average being 25 m/s. About one-third of the meteors produced a resonance effect. There are 5 figures.

Fig.1.



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